

# PATENT COOPERATION TREATY

From the  
INTERNATIONAL SEARCHING AUTHORITY

<b>To:</b>  <b>KOLSTER OY AB</b> <b>Iso Roobertinkatu 23.</b> <b>P.O. Box 148</b> <b>FIN-00121 HELSINKI</b> <b>Finland</b>
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## PCT

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing (day/month/year)	19-11-2004
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Applicant's or agent's file reference 2031102PC/nu	<b>FOR FURTHER ACTION</b> See paragraph 2 below	
International application No. PCT/FI 2004/000428	International filing date (day/month/year) 06-07-2004	Priority date (day/month/year) 07-07-2003
International Patent Classification (IPC) or both national classification and IPC B25D 9/06		
Applicant Sandvik Tamrock Oy et al		

<p>1. This opinion contains indications relating to the following items:</p> <div style="margin-left: 20px;"> <input checked="" type="checkbox"/> Box No. I    Basis of the opinion  <input type="checkbox"/> Box No. II    Priority  <input type="checkbox"/> Box No. III    Non-establishment of opinion with regard to novelty, inventive step and industrial applicability  <input type="checkbox"/> Box No. IV    Lack of unity of invention  <input checked="" type="checkbox"/> Box No. V    Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement  <input type="checkbox"/> Box No. VI    Certain documents cited  <input type="checkbox"/> Box No. VII    Certain defects in the international application  <input type="checkbox"/> Box No. VIII    Certain observations on the international application         </div> <p>2. <b>FURTHER ACTION</b></p> <p>If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.</p> <p>If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.</p> <p>For further opinions, see Form PCT/ISA/220.</p> <p>3. For further details, see notes to Form PCT/ISA/220.</p>
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WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/FI 2004/000428

Box No. I      Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ This opinion has been established on the basis of a translation from the original language into the following language, \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).

2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

- ☐ a sequence listing  
☐ table(s) related to the sequence listing

b. format of material

- ☐ in written format  
☐ in computer readable form

c. time of filing/furnishing

- ☐ contained in the international application as filed.  
☐ filed together with the international application in computer readable form.  
☐ furnished subsequently to this Authority for the purposes of search.

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

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PCT/FI 2004/000428

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	<u>1-32</u>	YES
	Claims	<u></u>	NO
Inventive step (IS)	Claims	<u>1-32</u>	YES
	Claims	<u></u>	NO
Industrial applicability (IA)	Claims	<u>1-32</u>	YES
	Claims	<u></u>	NO

2. Citations and explanations:

Documents cited in the International Search Report:

D1: WO 03004822 A1

D2: GB 2190147 A

The cited documents represent the general state of the art. The invention defined in claims 1-32 is not disclosed by any of these documents.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed method of generating a stress pulse in a tool or the claimed pressure fluid operated impact device. Therefore, the claimed invention is not obvious to a person skilled in the art. Accordingly, the invention defined in claims 1-32 is novel and is considered to involve an inventive step. The invention is industrially applicable.